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APPLICATION NO.	O. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/663,515	09/15/2000		Dale Scott Crombez	200-0029	2771
28395	7590	06/13/2002			
	· · · · · · · · · · · · · · · · · · ·	N P.C./FGTI	EXAMINER		
1000 TOWN 22ND FLOO	R		GONZALEZ, JULIO C		
SOUTHFIELD, MI 48098				ART UNIT	PAPER NUMBER
				2824	

DATE MAILED: 06/13/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)					
	09/663,515	CROMBEZ ET A	CROMBEZ ET AL.				
Office Action Summary	Examiner	Art Unit					
	Julio C. Gonzalez	2834	W				
The MAILING DATE of this communication apperiod for Reply	ppears on the cover sheet w	ith the correspondence a	ddress				
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b). Status	I. 1.136(a). In no event, however, may a epply within the statutory minimum of thind will apply and will expire SIX (6) MOI ute, cause the application to become A	reply be timely filed rty (30) days will be considered tim NTHS from the mailing date of this BANDONED (35 U.S.C. § 133).					
1) Responsive to communication(s) filed on 26	<u> March 2002</u> .						
2a) ☐ This action is FINAL . 2b) ☑ 1	This action is non-final.						
Since this application is in condition for allow closed in accordance with the practice under Disposition of Claims			he merits is				
4) \boxtimes Claim(s) <u>1-15</u> is/are pending in the application	on.						
4a) Of the above claim(s) is/are withdr	awn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-15</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and	or election requirement.						
Application Papers							
9) The specification is objected to by the Examir		abjected to by the Evamir	or				
10)⊠ The drawing(s) filed on <u>15 September 2000</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the E							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for forei	ign priority under 35 U.S.C.	§ 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority docume	nts have been received.						
2. Certified copies of the priority docume	nts have been received in A	Application No					
 3. Copies of the certified copies of the prapplication from the International E * See the attached detailed Office action for a list 	Bureau (PCT Rule 17.2(a)).		ıl Stage				
14) ☐ Acknowledgment is made of a claim for dome:	stic priority under 35 U.S.C	. § 119(e) (to a provision	al application).				
a) ☐ The translation of the foreign language p	* *						
Attachment(s)	•						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 	5) Notice of	Summary (PTO-413) Paper N Informal Patent Application (P					

Art Unit: 2834

DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 2. Claims 1-15 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

The specifications disclose a method in which a power unit is turn off or on.

However, the specifications are not clear enough as to how the power unit is turn off or on. Are sensors being provided with a microcontroller to assist the power unit determine when the power should be off/on? What parameters are been used to determine the thresholds? Any parameter? How and what determines the thresholds? The speed of the vehicle? The temperature of the engine? The charging state of the battery? The conditions of the road? How is the change requested from off to on? About the auxiliary system, which includes an air conditioning, how is the air conditioning an auxiliary system if the air conditioning is a load? How the purge vapor system in an auxiliary system? The brake booster vacuum system?

Art Unit: 2834

How such devices assist the main power unit? Are the auxiliary system supplying power or absorbing power? In what sense are those devices considered "auxiliary system"? The specifications are not clear enough as to how such auxiliary system in combination with the main power unit determined when the unit should be off or on?

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claims 1-15 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, what is considered an "auxiliary system"?

In claim 2, what window parameter the first and second threshold values defined? What are these values? What are these values' units?

In claim 3, what is meant by "a unit ON auxiliary system" and "a unit OFF auxiliary system"? Are those computer program commands that switch a valve? How does the system knows when the unit is off and therefore apply the "unit OFF auxiliary system"?

Art Unit: 2834

In clams 5-8, how are such devices auxiliary systems? What makes them auxiliary systems?

In claim 9, how are the steps requested that a unit should be turned on or off? Are all auxiliary units turned off or on at the same time? How are the auxiliary systems below or above a unit OFF or ON auxiliary system threshold value?

In order to advance prosecution in the merits, the Prior Art will be applied as best understood by the examiner.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 1-4 and 9-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brigham et al and Ibaraki et al.

Brigham et al discloses a system for a hybrid vehicle, a piston driven engine as a main power unit (column 1, lines 17), determining an ON/OFF status of the unit (column 10, lines 8, 9, 13) and certain parameters threshold has to be set in order for the system to function efficiently (column 9, line 20).

Art Unit: 2834

However, Brigham does not disclose that the unit be kept ON when a threshold is exceeded or using ON/OFF parameters for a main unit.

On the other hand, Ibaraki discloses for the purpose of decrease running failure of hybrid vehicles that a unit may be kept ON or OFF depending on a certain threshold (column 9, lines 59-67).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to design a hybrid vehicle as disclosed by Brigham et al and to modify the invention by setting OFF/ON threshold parameters for the purpose of decrease running failure of hybrid vehicles as disclosed by Ibaraki.

7. Claims 5 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brigham and Ibaraki as applied to claims 1 and 10 above, and further in view of Tanihata et al.

The combined hybrid vehicle discloses all of the elements above. However, the combined hybrid vehicle does not disclose using a brake booster vacuum sytem.

On the other hand, Tanihata et al discloses for the purpose of prohibiting the running state that an engine which drives power is not started that a brake booster vacuum system may be used in hybrid vehicles.

Art Unit: 2834

It would have been obvious to one having ordinary skill in the art at the time the invention was made to design the combined hybrid vehicle as disclosed above and to modify the invention by using a brake booster vacuum for the purpose of prohibiting the running state that an engine which drives power as disclosed by Tanihata.

8. Claims 7 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brigham et al and Ibaraki et al as applied to claims 1 and 10 above, and further in view of Iwashita et al.

The combined hybrid vehicle discloses all of the elements above. However, the combined hybrid vehicle does not disclose using a purge vapor system.

On the other hand, Iwashita discloses for the purpose of reducing environmental pollution that purge vapor system may be used in hybrid vehicles (see abstract).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to design the combined hybrid vehicle as disclosed above and to modify the invention by using a purge vapor system for the purpose of reducing environmental pollution as disclosed by Iwashita et al.

Art Unit: 2834

9. Claims 6, 8, 13 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brigham et al and Ibaraki et al and Iwashita et al as applied to claims 1, 7, 10 and 14 above, and further in view of Yoshida.

The combined hybrid vehicle discloses all of the elements above. However, the combined hybrid vehicle does not disclose using an air conditioning system and catalyst system.

On the other hand, Yoshida discloses for the purpose of providing a hybrid vehicle with satisfactory power performances, a catalyst (column 4, line 47), an A/C system 70, and heating system (see claim 15).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to design the combined hybrid vehicle as disclosed above and to modify the invention by using an A/C system discloses for the purpose of providing a hybrid vehicle with satisfactory power performances as disclosed by Yoshida.

Art Unit: 2834

Page 8

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Julio C. Gonzalez whose telephone number is (703) 305-1563. The examiner can normally be reached on M-F (8AM-5PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor Ramirez can be reached on (703) 308-1371. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 305-1341 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

NESTOR RAMIREZ

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800

Jcg

June 7, 2002